Abstract of the Disclosure

Α modification HMM method for preventing overfitting problem, reducing the number of parameters and avoiding gradient calculation by implementing a weighted loss function for misclassification measure and computing a delta coefficient in order to modify a HMM weight is The HMM modification method includes the steps disclosed. of: a) performing Viterbi decoding for pattern classification; b) calculating misclassification measure discriminant function; obtaining using c) modified misclassification measure for a weighted loss function; d) computing a delta coefficient according to the obtained misclassification measure; e) modifying MMH weight according to the delta coefficient; and f) transforming classifier parameters for satisfying a limitation condition.

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